

# Afghanistan, Iraq and the Kurdistan Region of Iraq

**Post Conflict Prospects and Opportunities** 



\$1,532,581,650,000 Or \$10.5 million an hour



Iraq







- Country Analysis Brief Overview
- Fifth largest proven crude oil reserves in the world
- Surpassed Iran as the second largest producer of crude oil in OPEC at the end of 2012.
- Fallen behind ambitious targets because of infrastructure constraints and political disputes.

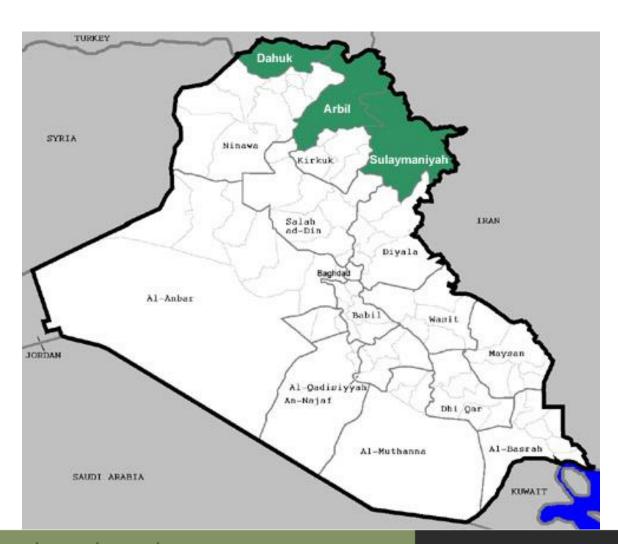


- Iraq was the sixth largest net exporter of petroleum liquids in the world in 2012
- The majority of Iraqi natural gas production is flared
- After years of power shortages, Iraqi efforts to increase generating capacity are moving forward. Iraq plans to triple generating capacity to 27 gigawatts by the end of 2015.



## **Kurdistan**

### STEPTOE SJOHNSON ere in the world is Kurdistan?





## The Challenges

- The Neighborhood
- The KRG Baghdad Disconnect
- The novel terms of the KRG standard agreement
  - The good: Production Sharing Format
  - The bad: KRG can nominate new "partners" after production is achieved
- The tonic Industry Consensus: Exxon, Chevron,
  Total, Gulf Keystone, etc., are there!

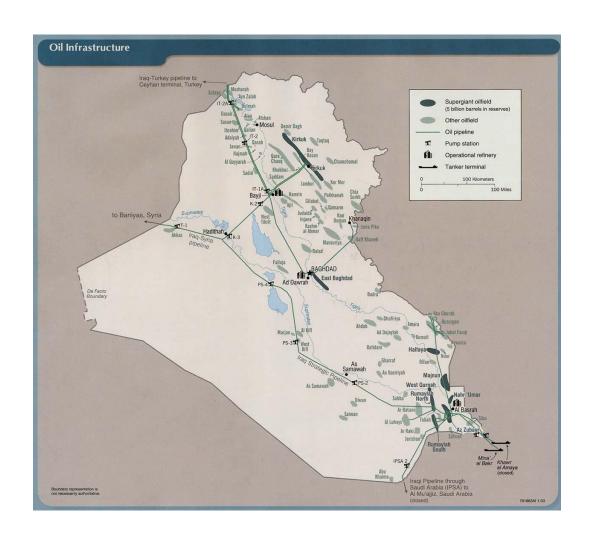


# Why is Kurdistan Challenging?

#### FUELLING THE TENSION WHERE PROBLEMS LIE









# What the industry is doing

 US energy giant Chevron signs oil deal with Iraqi Kurdistan—June 18, 2013

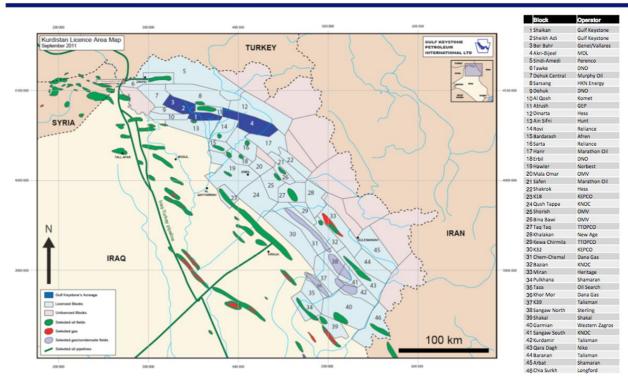
 Joining 39 companies from 19 countries in KRG oil and gas activities

Kurd Net June 18, 2013 ekurd.net

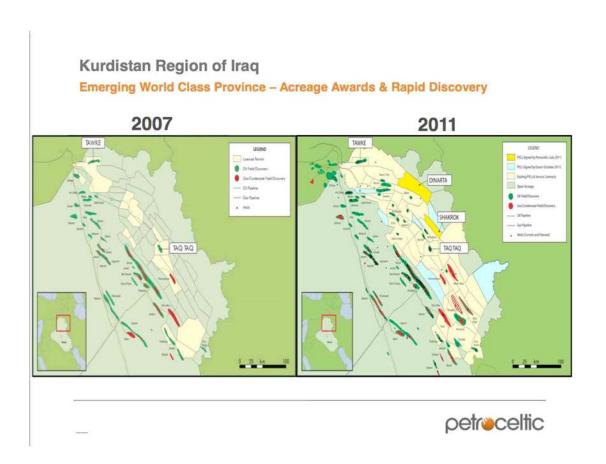


#### **Kurdistan Region of Iraq Licences**











# What the KRG is projecting

 Iraq's Kurdistan Region expects to produce one million barrels of oil per day (bpd) by 2015, an ambitious fivefold increase over current output, the autonomous northern enclave's natural resources minister says in a report.

Kurd Net 6/7/2013 ekurd.net



# What producers are saying about the KRG

 "The Kurdistan region is proving to be a world class hydrocarbon resource base, discovery is well above industry standards and the growth rate of infrastructure development is accelerating," said Nicholas Atencio, DNO general manager of Kurdistan, speaking at ADIPEC last month." (ADIPEC 2012).

DNO International is an entrepreneurial independent E&P company, geographically focused on the Middle East and North Africa with operations in Yemen, the Kurdistan region of Iraq, Tunisia, Oman and Ras Al Khaimah. The group is headquartered in Oslo and listed on the Oslo Stock Exchange.

### STEPTOE SJOHNSON hat producers are producing

 Gulf Keystone Petroleum will produce 40,000 barrels of oil per day (bpd) within the coming weeks after the Iraqi Kurdistan-focused explorer's field development plan was approved, the region's energy ministry said on Wednesday.

Kurd Net, June 26, 2013 www.ekurd.net



 According to OPEC, Iraq's resources of 143 billion barrels of crude oil and 126.7 trillion cubic feet of gas are the fourth largest in the world after Venezuela, Saudi Arabia and Iran. However, Iraq's oil production is almost half that of Iran, meaning there is plenty of room for growth.

PUK Media October, 2012 Pukmedia.com/EN



 Kurdistan accounts for 43.7 billion barrels of proven oil reserves, 25.5 billion more barrels of unproven reserves and between 3 and 6 trillion cubic meters of gas (30% of Iraq's proven oil reserves). If Kurdistan was a country, the amount of oil and gas reserves would place it among the top 10 oil rich countries in the world.

Pukmedia.com October, 2012







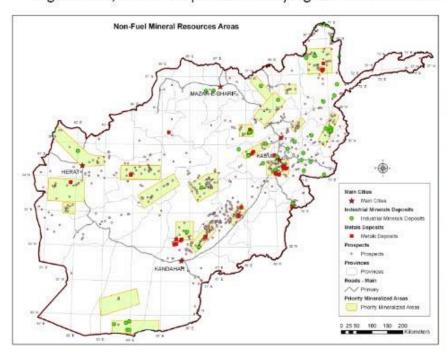
### **AFGHANISTAN**



#### Afghan Mineral Resources (Non-Fuel): Estimated Value



\$908B: Current potential value\* of metal and industrial mineral development in Afghanistan, at current prices in today's global economic downturn.



* Known and estimated "undiscovere	d" resources anticipated by USGS and AGS and using prices as of 12/09.	
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MINERALS		
Iron	\$420,850,000,000	
Copper	\$273,998,000,000	
Niobium	\$81,200,000,000	
Cobalt	\$50,820,000,000	
Gold	\$24,996,000,000	
Molybdenum	\$23,892,000,000	
Rare Earth Elements	\$7,406,000,000	
Asbestos	\$6,322,000,000	
Silver	\$5,335,000,000	
Potash	\$5,090,000,000	
Aluminum	\$4,434,000,000	
Graphite	\$671,000,000	
Lapis Lazuli	\$650,000,000	
Fluorite/Fluorspar	\$644,000,000	
Phosphorus	\$581,000,000	
Lead and Zinc	\$547,000,000	
Mercury	\$495,000,000	
Strontium	\$408,000,000	
Sulfur	\$234,000,000	
Talc	\$164,000,000	
Magnesite	\$161,000,000	
Kaolin	\$50,000,000	
TOTAL	\$908,948,000,000	

USGS agrees with assertion: "At least 70% of Afghanistan's mineral resources are yet to be identified."

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- Amu River Basin
- 75,000 sq km
  - 962 mm bbls
  - 52 tcf
  - \$12.5 mm Seismic
  - 480 sq. km.

### **CNOC**

25year

70% Profit



- The Afghan-Tajik Crude Oil Zone
- 31,000 sq Km

- 3 companies
  - 1.6bn investilment
  - \$12bn investment in 12 years
  - 1000 jobs
  - 12000 jobs



- Oil Fields in Herat
- 14,000 sq km
- Unknown reserves



- Katawaz Zone
  - 4,000 square kilometres
- Geologists say Katawaz crude oil zone reserves stretch inside Pakistan. The recent exploration of oil and gas in the border area with Pakistan supported the predictions of the geologists



Helmand Crude Oil Zone

- 131,000sq km

Unknown possible reserves